

AT-RTOS32Win

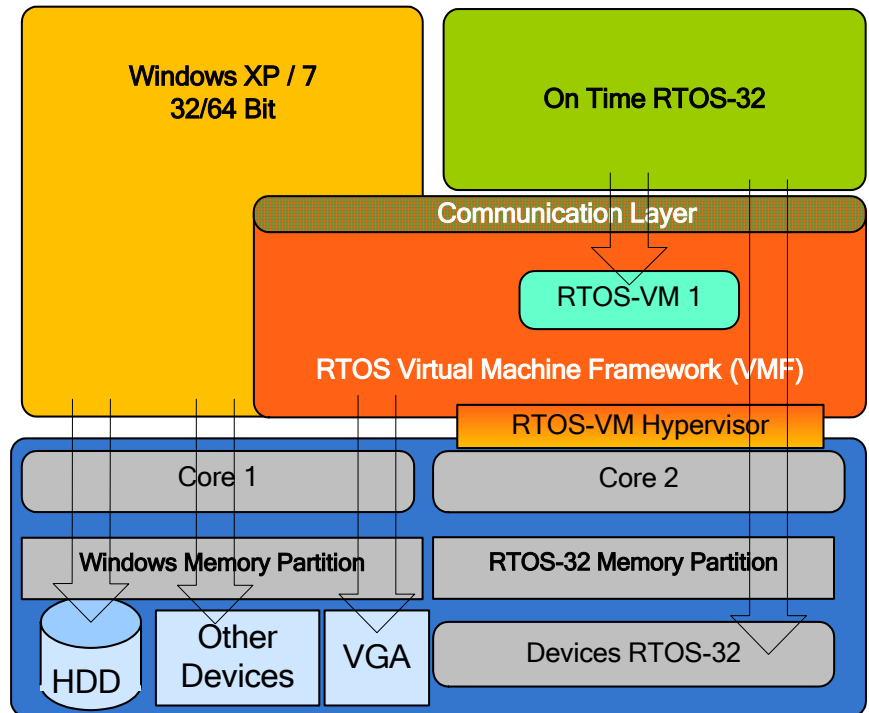
The embedded operating system On Time RTOS-32 is especially optimized for x86 processors and therefore has an extremely small footprint and excellent real-time behavior.

Using AT-RTOS32Win from **acontis technologies** it is now possible to run both operating systems, On Time RTOS-32 and Windows on single-core as well as multi-core PC systems.

On Time Informatik, manufacturer of On Time RTOS-32, provides the RTVmf-32 component which supports this runtime environment.

With AT-RTOS32Win from acontis technologies and the components RTTarget-32, RTKernel-32 and RTVmf-32 from On Time Informatik it is now easy to run Windows XP or Windows 7 and On Time RTOS-32 concurrently on single-core or multi-core PC systems.

AT-RTOS32Win is based on the industry proven RTOS Virtual Machine Technology for Windows.



Technical Features

- Support of the latest Windows versions
 - Windows XP 32 Bit
 - Windows 7 32 Bit
 - Windows 7 64 Bit
- Ultra-fast interrupt handling without any delay on multi-core systems!
- Typical worst case timer interrupt latency are 2 microseconds on a dual core CPU and 25 microseconds on a single core CPU
- On Time-RTOS32 continues without real-time penalty after Windows Blue-Screen occurred.
- All currently available processors are supported, either with hardware virtualization (e.g. Intel-VT, AMD-V) or without (e.g. Intel Celeron, AMD Sempron), especially also:
 - All Intel Atom CPUs
 - All AMD Fusion CPUs
- Full support for quad core (or more) CPUs: Windows and/or RTOS-32 may utilize multiple CPU cores
- Virtual Network connection between Windows and On Time RTOS-32 (for TCP/IP communication and local debugging)
- Shared Memory, Events and Interlocked data access for high speed application level communication
- Debug Console for low level application debugging
- Timer-Adjustment API for IEEE1588 and EtherCAT synchronization
- The same On Time RTOS-32 application can execute on any PC hardware (AMD, Intel, single core, multi core) without recompilation
- Integrated acontis technologies' **EtherCAT Master Stack** solution available